

PTO/SB/088 (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/695,297		
		Filing Date	OCTOBER 28, 2003		
		First Named Inventor	ROY CHUNG ET AL.		
		Group Art Unit			
		Examiner Name			
Sheet	1	of	0	Attorney Docket Number	MCROD-002CB

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
BTN		Triage Panel for Drugs of Abuse - Directions for Use, Biosite Diagnostics of San Diego, CA (1991) (11 pages).	
		Thomas Ciesiolka & Hans-Joachim Gabius, "An 8-10 Fold Enhancement in Sensitivity for Quantification of Proteins by Modified Application of Colloidal Gold: in Analytical Biochemistry 168, 280-283 (Academic Press, Inc. 1988).	
		Jan H.W. Leuvers, et al., "A Homogeneous Sol Particle Immunoassay for Human Chronic Gonadotrophin Using Monoclonal Antibodies" in Journal of Immunological Methods 60, 9-23 (Elsevier Science Publishers 1983).	
		G. Frens, "Controlled Nucleation for the Regulation of the Particle Size in Monodisperse Gold Suspensions" in Nature Physical Science, Vol. 241 (January 1, 1973).	
		U.R. Chakraborty, et al., "An immunogold assay system for the detection of antigen or antibody" in Ann. Biol. Clin. 48, 403-408 (1990).	
		Lars-Inge Larsson, "Simultaneous ultrastructural demonstration of multiple peptides in endocrine cells by a novel immunocytochemical method" in Nature Vol. 282, 743-746 (13 December 1979).	
		W. Baschong, et al., "Thiocyanate gold: small (2-3 nm) colloidal gold for affinity cytochemical labeling in electron microscopy" in Histochemistry 83:409-411 (Springer-Verlag 1985)	
		Jan W. Slot, et al., "A new method of preparing gold probes for multiple-labeling cytochemistry" in European Journal of Cell Biology 38, 87-93 (1985).	
		Christa M. Stoscheck, "Protein Assay Sensitive at Nanogram Levels" in Analytical Biochemistry 160, 301-305 (1987).	
		Claudio N. Beristain, et al., "Evaluation of a Dipstick Method for the Detection of Human Immunodeficiency Virus Infection" in Journal of Clinical Laboratory Analysis 9:347-350 (1995).	
BTN		Jose M. Coco Martin, et al., "Characterization of Antibody Labelled Colloidal Gold Particles and Their Applicability in a Sol Particle Immuno Assay (SPIA)" in Journal of Immunoassay, 11(1), 31-47 (1990).	

Examiner Signature	/Bao Thuy Nguyen/	Date Considered	08/23/2006
-----------------------	-------------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known			
		Application Number	10/695,297		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	OCTOBER 28, 2003		
		First Named Inventor	ROY CHUNG ET AL.		
		Group Art Unit			
		Examiner Name			
Sheet	1	of	0	Attorney Docket Number	MCROD-002CB

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Triage Panel for Drugs of Abuse - Directions for Use, Biosite Diagnostics of San Diego, CA (1991) (11 pages).	
		Thomas Ciesiolka & Hans-Joachim Gabius, "An 8-10 Fold Enhancement in Sensitivity for Quantification of Proteins by Modified Application of Colloidal Gold: in Analytical Biochemistry 168, 280-283 (Academic Press, Inc. 1988).	
		Jan H.W. Leuvening, et al., "A Homogeneous Sol Particle Immunoassay for Human Chronic Gonadotrophin Using Monoclonal Antibodies" in Journal of Immunological Methods 60, 9-23 (Elsevier Science Publishers 1983).	
		G. Frens, "Controlled Nucleation for the Regulation of the Particle Size in Monodisperse Gold Suspensions" in Nature Physical Science, Vol. 241 (January 1, 1973).	
		U.R. Chakraborty, et al., "An Immunogold assay system for the detection of antigen or antibody" in Ann. Biol. Clin. 48, 403-408 (1990).	
		Lars-Inge Larsson, "Simultaneous ultrastructural demonstration of multiple peptides in endocrine cells by a novel immunocytochemical method" in Nature Vol. 282, 743-746 (13 December 1979).	
		W. Baschong, et al., "Thiocyanate gold": small (2-3 nm) colloidal gold for affinity cytochemical labeling in electron microscopy" in Histochemistry 83, 409-411 (Springer-Verlag 1985)	
		Jan W. Slot, et al., "A new method of preparing gold probes for multiple-labeling cytochemistry" in European Journal of Cell Biology 38, 87-93 (1985).	
		Christa M. Stoscheck, "Protein Assay Sensitive at Nanogram Levels" in Analytical Biochemistry 160, 301-305 (1987).	
		Claudio N. Beristain, et al., "Evaluation of a Dipstick Method for the Detection of Human Immunodeficiency Virus Infection" in Journal of Clinical Laboratory Analysis 9:347-350 (1995).	
		Jose M. Coco Martin, et al., "Characterization of Antibody Labelled Colloidal Gold Particles and Their Applicability in a Sol Particle Immuno Assay (SPIA)" in Journal of Immunoassay, 11(1), 31-47 (1990).	

Examiner Signature	duplicate	Date Considered	
--------------------	-----------	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 1 of 0		Complete if Known	
		Application Number	10/695,297
		Filing Date	OCTOBER 28, 2003
		First Named Inventor	ROY CHUNG ET AL.
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	MCROD-002CB

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BTN		Jan H.W. Leuversing, et al., "Sol Particle Immunoassay (SPIA)" in Journal of Immunoassay, 1(1), 77-91 (1980).	
		J. Roth, The Colloidal Gold Marker System for Light and Electron Microscopic Cytochemistry (Academic Press 1993).	
		Julian E. Beesley, Colloidal Gold: A New Perspective for Cytochemical Marking, (Oxford Univ. Press/Royal Microscopical Society 1989).	
		Marc Moeremans, et al., "Sensitive Colloidal Metal (Gold or Silver) Staining of Protein Blots on Nitrocellulose Membranes" in Analytical Biochemistry 145, 315-321 (1985).	
		Jan H.W. Leuversing, et al., "A Sol Particle Agglutination Assay for Human Chorionic Gonadotrophin" in Journal of Immunological Methods, 45, 183-194 (Elsevier/North-Holland Biomedical Press 1981).	
		William D. Geoghegan and G. Adolph Ackerman, "Adsorption of Horseradish Peroxidase, Ovomucoid and Anti-Immunoglobulin to Colloidal Gold for the Indirect Detection of Concanavalin A, Wheat Germ Agglutinin and Goat Anti-Human Immunoglobulin G on Cell Surfaces at the Electron Microscopic Level: A New Method, Theory and Application" in Journal of Histochemistry and Cytochemistry, Vol. 25, No. 11, pp. 1187-1200 (1977).	
BTN		Rita Gupta, et al., "Rapid Antibody Capture Assay for Detection of Group-A Streptococci Using Monoclonal Antibody and Colloidal Gold-Monospecific Polyvalent Antibody Conjugate" in Journal of Immunoassay, 13(3), 441-455 (1992).	

Examiner Signature	/Bao Thuy Nguyen/	Date Considered	08/23/2006
--------------------	-------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet <u>1</u> of <u>0</u>		Complete if Known	
		Application Number	10/695,297
		Filing Date	OCTOBER 28, 2003
		First Named Inventor	ROY CHUNG ET AL.
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	MCROD-002CB

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		duplicate	
		Jan H.W. Leuversing, et al., "Sol Particle Immunoassay (SPIA)" in Journal of Immunoassay, 1(1), 77-91 (1980).	
		J. Roth, The Colloidal Gold Marker System for Light and Electron Microscopic Cytochemistry (Academic Press 1993).	
		Julian E. Beesley, Colloidal Gold: A New Perspective for Cytochemical Marking, (Oxford Univ. Press/Royal Microscopical Society 1989).	
		Marc Moeremans, et al., "Sensitive Colloidal Metal (Gold or Silver) Staining of Protein Blots on Nitrocellulose Membranes" in Analytical Biochemistry 145, 315-321 (1985).	
		Jan H.W. Leuversing, et al., "A Sol Particle Agglutination Assay for Human Chorionic Gonadotrophin" in Journal of Immunological Methods, 45, 183-194 (Elsevier/North-Holland Biomedical Press 1981).	
		William D. Geoghegan and G. Adolph Ackerman, "Adsorption of Horseradish Peroxidase, Ovomucoid and Anti-Immunoglobulin to Colloidal Gold for the Indirect Detection of Concanavalin A, Wheat Germ Agglutinin and Goat Anti-Human Immunoglobulin G on Cell Surfaces at the Electron Microscopic Level: A New Method, Theory and Application" in Journal of Histochemistry and Cytochemistry, Vol. 25, No. 11, pp. 1187-1200 (1977).	
		Rita Gupta, et al., "Rapid Antibody Capture Assay for Detection of Group-A Streptococci Using Monoclonal Antibody and Colloidal Gold-Monospecific Polyvalent Antibody Conjugate" in Journal of Immunoassay, 13(3), 441-455 (1992).	

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/695,297
				Filing Date	OCTOBER 28, 2003
				First Named Inventor	ROY CHUNG, ET AL.
				Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	MCROD-002CB

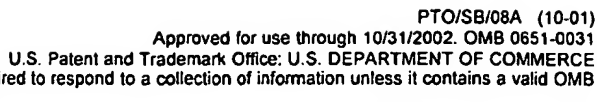
[illegible][illegible]

Examiner Signature	/Bao Thuy Nguyen/	Date Considered	08/23/2006
-----------------------	-------------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**



Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/695,297
Filing Date	OCTOBER 28, 2003
First Named Inventor	ROY CHUNG, ET AL
Art Unit	
Examiner Name	
Attorney Docket Number	MCROD-002CB

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

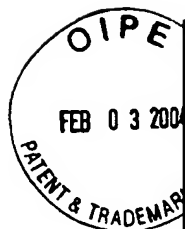
Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0



Title of Invention	IMPROVED IMMUNOASSAY SYSTEM
-------------------------------	------------------------------------

Application Number: 10/695297
 Confirmation Number: 4182
 First Named Applicant: ROY CHUNG
 Attorney Docket Number: MCROD-002CB
 Art Unit: 1641



Search string: (4134792 or 4168146 or 4366241 or 4407943
 or 4517288 or 4857453 or 4859612 or 4861711
 or 5089391 or 5143852 or 5202267 or 5233042
 or 5237057 or 5468647 or 5486452 or 5559041
 or 5656448 or 5656503 or 5691207 or 5712172
 or 5714389 or 5728587 or 5744358 or 5766961
 or 5770460).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
BTN	1	4134792	1979-01-16	BOGUSLASKI, ET AL.			
	2	4168146	1979-09-18	GRUBB, ET AL.			
	3	4366241	1982-12-28	TOM			
	4	4407943	1983-10-04	COLE, ET AL.			
	5	4517288	1985-05-14	GIEGEL, ET AL.			
	6	4857453	1989-08-15	ULLMAN, ET AL.			
	7	4859612	1989-08-22	COLE, ET AL.			
	8	4861711	1989-08-29	FRIESEN, ET AL.			
	9	5089391	1992-02-18	BUECHLER, ET AL.			
	10	5143852	1992-09-01	VALKIRS, ET AL.			
	11	5202267	1993-04-13	DITLOW, ET AL.			
	12	5233042	1993-08-03	BUECHLER			
✓	13	5237057	1993-08-17	BUECHLER			
BTN	14	5468647	1995-11-21	SKOLD, ET AL.			

BTN	15	5486452	1996-01-23	GORDON, ET AL.
	16	5559041	1996-09-24	KANG, ET AL.
	17	5656448	1997-08-12	KANG, ET AL.
	18	5656503	1997-08-12	MAY, ET AL.
	19	5691207	1997-11-25	HOLTLUND, ET AL.
	20	5712172	1998-01-27	HUANG, ET AL.
	21	5714389	1998-02-03	CHARLTON, ET AL.
	22	5728587	1998-03-17	KANG, ET AL.
	23	5744358	1998-04-28	JACKOWSKI, ET AL.
✓	24	5766961	1998-06-16	PAWLAK, ET AL.
BTN	25	5770460	1998-06-23	PAWLAK, ET AL.

Signature

Examiner Name	Date
/Bao Thuy Nguyen/	08/22/2006